Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A bonding device for bonding an 1 object to be bonded under pressure to a surface to be bonded 2 3 by allowing a load and vibration to act on the object to be 4 bonded, the bonding device comprising: 5 a bonding tool, abutting on the object to be bonded; and a pressing unit, pressing the bonding tool to the object 6 7 to be bonded; 8 wherein the bonding tool includes: 9 a transversely elongated horn; 10 a vibrator, applying a longitudinal vibration to the 11 horn in a first longitudinal direction along the longitudinal 12 direction of the horn; 13 a protruding part, protruding from the horn in a second direction substantially perpendicular to the first 14 direction; 15 16 a bonding operation part, provided in the end part 17 of the protruding part to abut on the object to be bonded; and 18 a heating unit, inserted into a mounting hole 19 provided in the horn; and 20 wherein the heating unit is mounted into the mounting 21 hole in a loose state with a substantial space enough to

- 22 prevent a contact pressure of the heating unit maintained from
- 23 <u>against</u> the inner surface of the mounting hole.
- 1 Claim 2 (original): The bonding device according to claim 1,
- wherein a vent part is provided for preventing the transfer of
- 3 heat to the vibrator in the horn between the vibrator and the
- 4 bonding operation part.
- 1 Claim 3 (previously presented): The bonding device
- 2 according to claim 2, wherein the vent part is a transversely
- 3 elongated slit in the first direction.
- 1 Claim 4 (withdrawn): The bonding device according to claim
- 2 1, wherein the heating unit is provided in a part
- 3 corresponding to an antinode of the vibration of the horn.
- 1 Claim 5 (currently amended): The A bonding tool for bonding
- 2 an object to be bonded under pressure to a surface to be
- 3 bonded by allowing a load and vibration to act on the object
- 4 to be bonded, the bonding tool comprising:
- 5 a transversely elongated horn;,
- a vibrator, applying a longitudinal vibration to the horn
- 7 in a first direction along the longitudinal direction of the
- 8 horn;
- 9 a protruding part, protruding from the horn in a second

- direction substantially perpendicular to the first direction;
- 11 a bonding operation part, provided in the end part of the
- 12 protruding part to abut on the object to be bonded; and
- a heating unit, inserted into a mounting hole provided in
- 14 the horn;

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- wherein the heating unit is mounted into the mounting
- 16 hole <u>in a loose state</u> with a <u>substantial</u> space <u>enough to</u>
- 17 prevent a contact pressure to the heating unit maintained from
- 18 <u>against</u> the inner surface of the mounting hole.
- 1 Claim 6 (original): The bonding tool according to claim 5,
- wherein a vent part is provided for preventing the transfer of
- 3 heat to the vibrator in the horn between the vibrator and the
- 4 bonding operation part.
- 1 Claim 7 (previously presented): The bonding tool according
- 2 to claim 6, wherein the vent part is a transversely elongated
- 3 slit in the first direction.
- 1 Claim 8 (withdrawn): The bonding tool according to claim
- 5, wherein the heating unit is provided in a part
- 3 corresponding to a antinode of the vibration of the horn.
- 1 Claim 9 (currently amended): The \underline{A} bonding tool for bonding
- 2 an object to be bonded under pressure to a surface to be

- 3 bonded by allowing a load and vibration to act on the object
- 4 to be bonded, the bonding tool comprising:
- 5 a transversely elongated horn;
- a vibrator, applying a longitudinal vibration to the horn
- 7 in a first direction along the longitudinal direction of the
- 8 horn;

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- 9 a protruding part, protruding from the horn in a second
- direction substantially perpendicular to the first direction;
- il a bonding operation part, provided in the end part of the
- 12 protruding part to abut on the object to be bonded and;
- a rod shaped heating unit, inserted into the first
- 14 direction of the horn.
- 1 Claim 10 (original): The bonding tool according to claim
- 2 9, wherein a vent part is provided for preventing the transfer
- 3 of heat to the vibrator in the horn between the vibrator and
- 4 the bonding operation part.
- 1 Claim 11 (previously presented): The bonding tool according
- 2 to claim 10, wherein the vent part is a transversely elongated
- 3 slit in the first direction.
- 1 Claim 12 (withdrawn): The bonding tool according to claim
- 2 9, wherein the heating unit is provided in a part
- 3 corresponding to an antinode of the vibration of the horn.